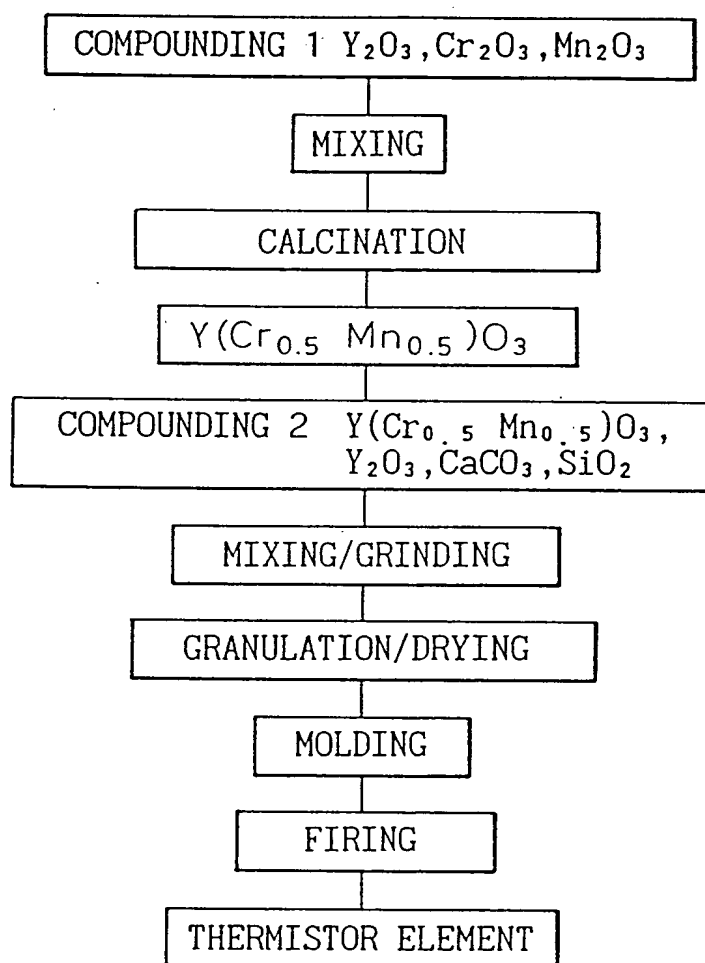




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Fig.1





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Fig. 2

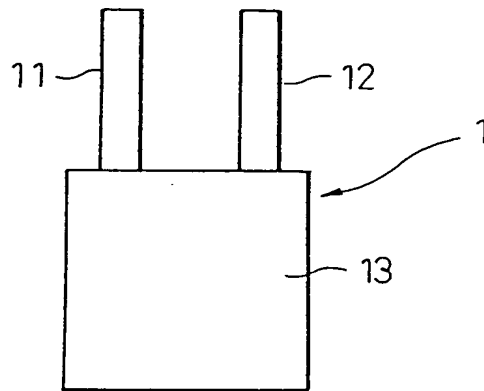


Fig. 3

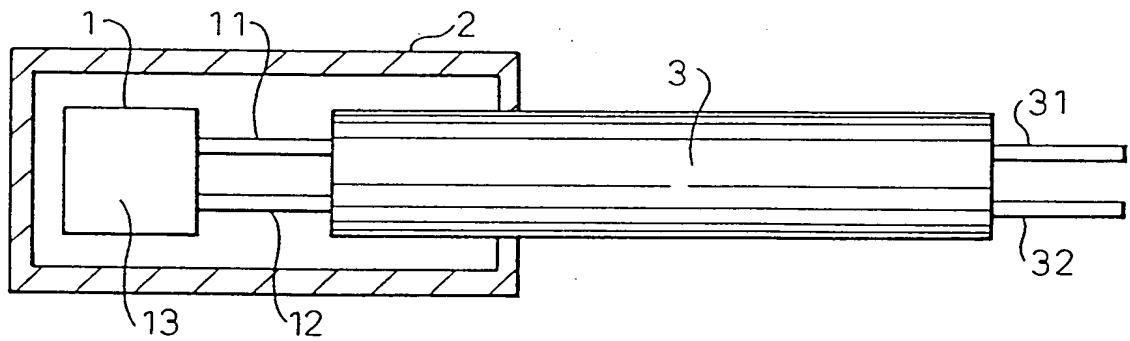
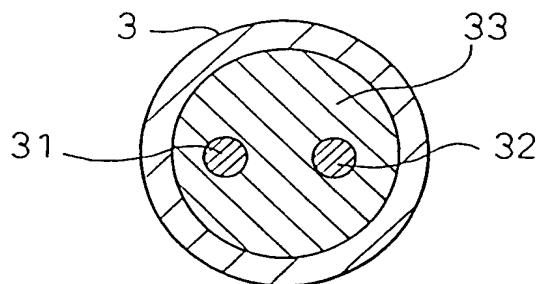


Fig. 4



```
graph TD; A[COMPOUNDING 1 Cr2O3, Mn2O3] --> B[MIXING]; B --> C[CALCINATION]; C --> D["(Mn1.5 Cr1.5)O4"]; D --> E["COMPOUNDING 2 (Mn1.5 Cr1.5)O4, Y2O3, CaCO3, SiO2"]; E --> F[MIXING/GRINDING]; F --> G[GRANULATION/DRYING]; G --> H[MOLDING]; H --> I[FIRING]; I --> J[THERMISTOR ELEMENT];
```

COMPOUNDING 1 $\text{Cr}_2\text{O}_3, \text{Mn}_2\text{O}_3$

MIXING

CALCINATION

$(\text{Mn}_{1.5} \text{Cr}_{1.5})\text{O}_4$

COMPOUNDING 2 $(\text{Mn}_{1.5} \text{Cr}_{1.5})\text{O}_4, \text{Y}_2\text{O}_3, \text{CaCO}_3, \text{SiO}_2$

MIXING/GRINDING

GRANULATION/DRYING

MOLDING

FIRING

THERMISTOR ELEMENT

```
graph TD; A[COMPOUNDING 1 Y2O3, Cr2O3, Mn2O3] --> B[MIXING]; B --> C[CALCINATION]; C --> D["Y(Cr0.5 Mn0.5)O3"]; D --> E["COMPOUNDING 2 Y(Cr0.5 Mn0.5)O3, Y2O3, TiO2, CaCO3, SiO2"]; E --> F[MIXING/GRINDING]; F --> G[GRANULATION/DRYING]; G --> H[MOLDING]; H --> I[FIRING]; I --> J[THERMISTOR ELEMENT];
```

COMPOUNDING 1 Y_2O_3, Cr_2O_3, Mn_2O_3

MIXING

CALCINATION

$Y(Cr_{0.5} Mn_{0.5})O_3$

COMPOUNDING 2 $Y(Cr_{0.5} Mn_{0.5})O_3, Y_2O_3, TiO_2, CaCO_3, SiO_2$

MIXING/GRINDING

GRANULATION/DRYING

MOLDING

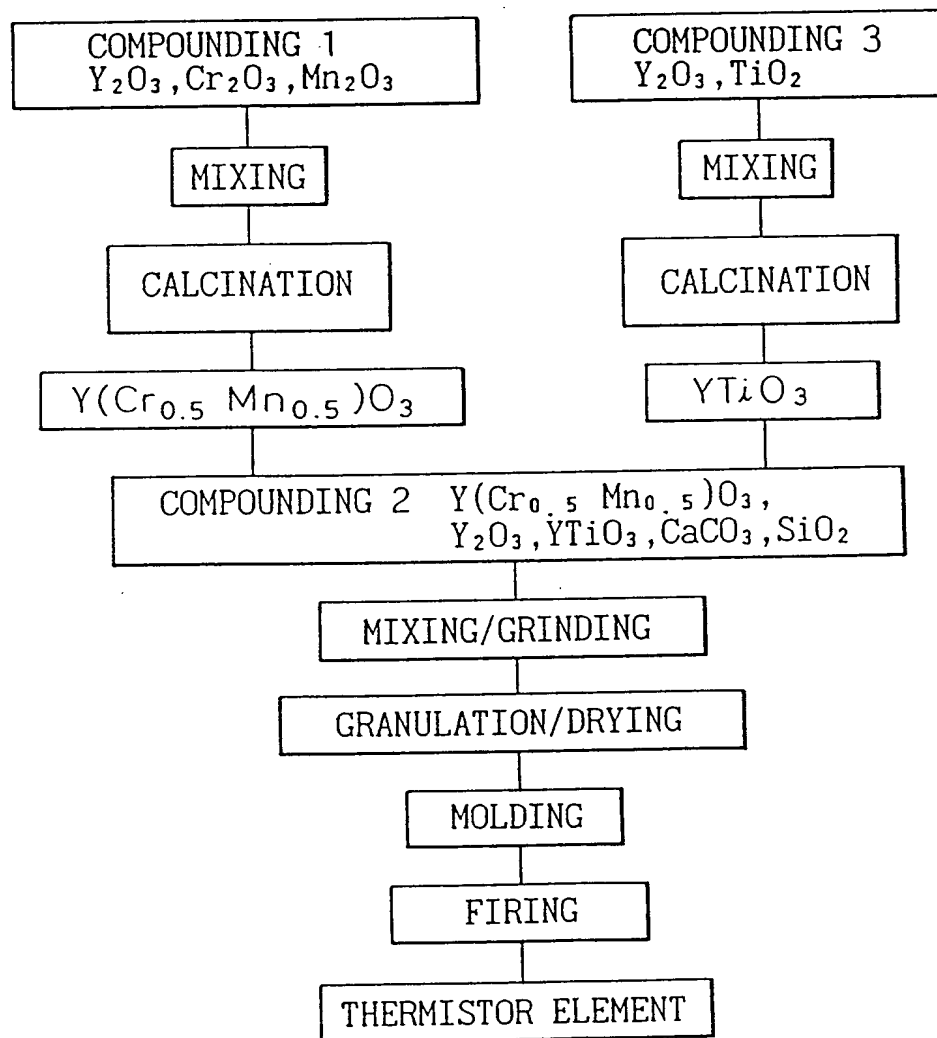
FIRING

THERMISTOR ELEMENT



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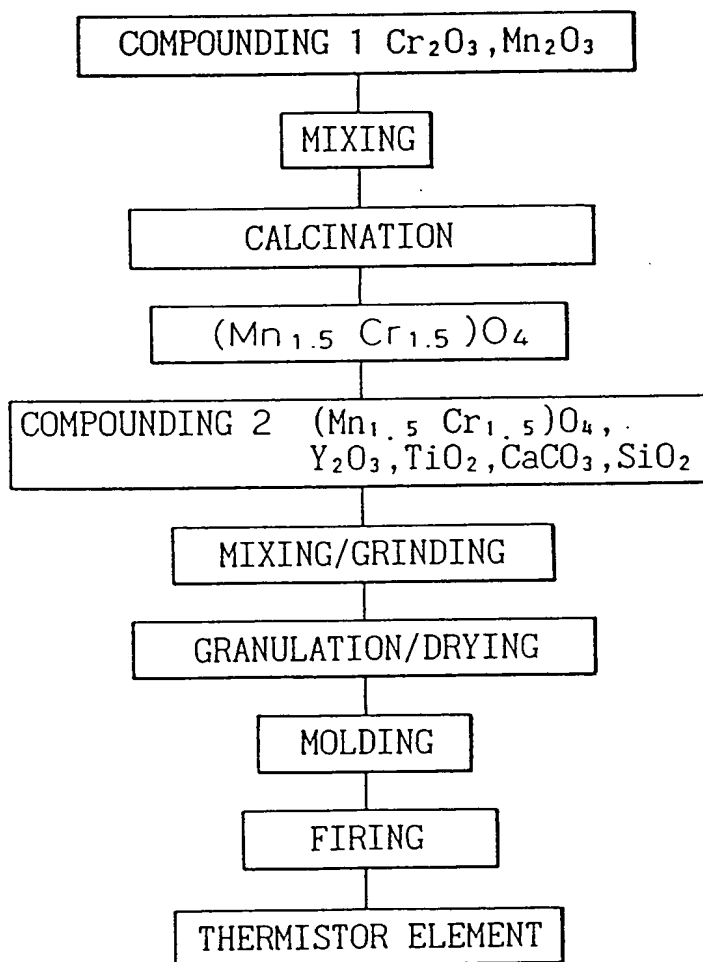
Fig. 7





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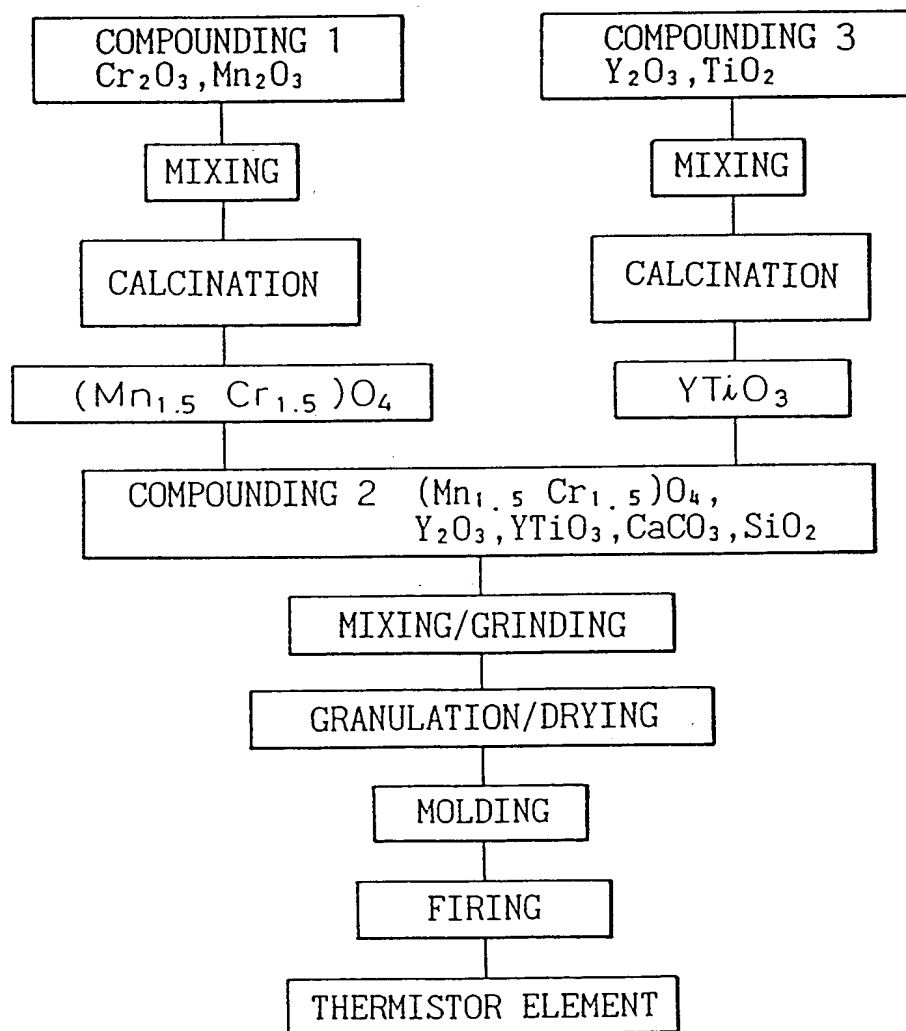
Fig. 8





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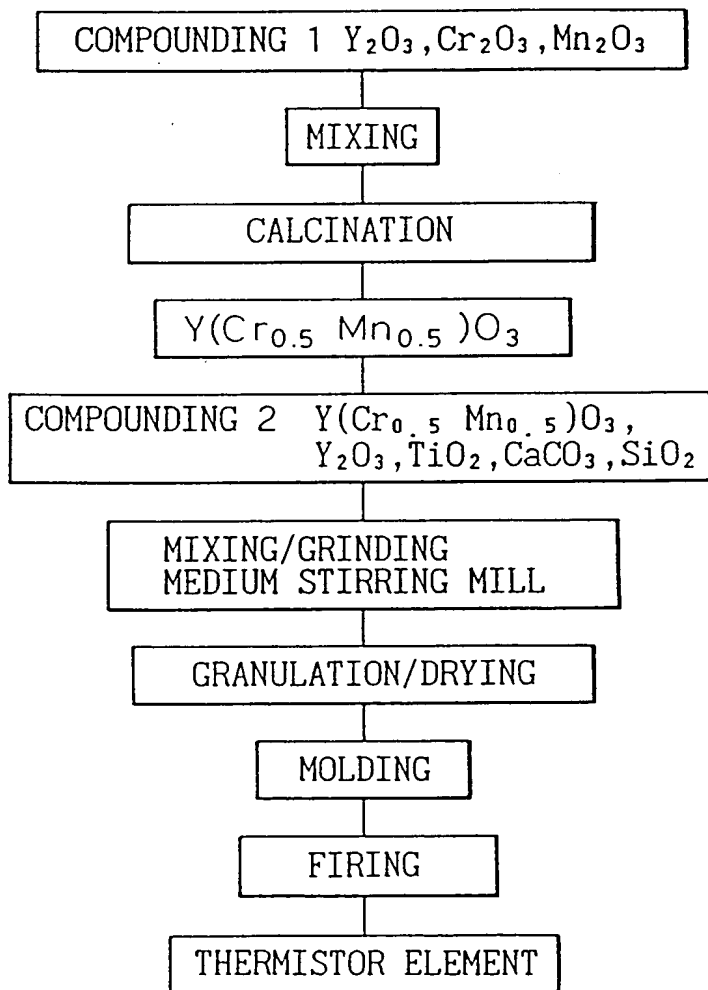
Fig. 9





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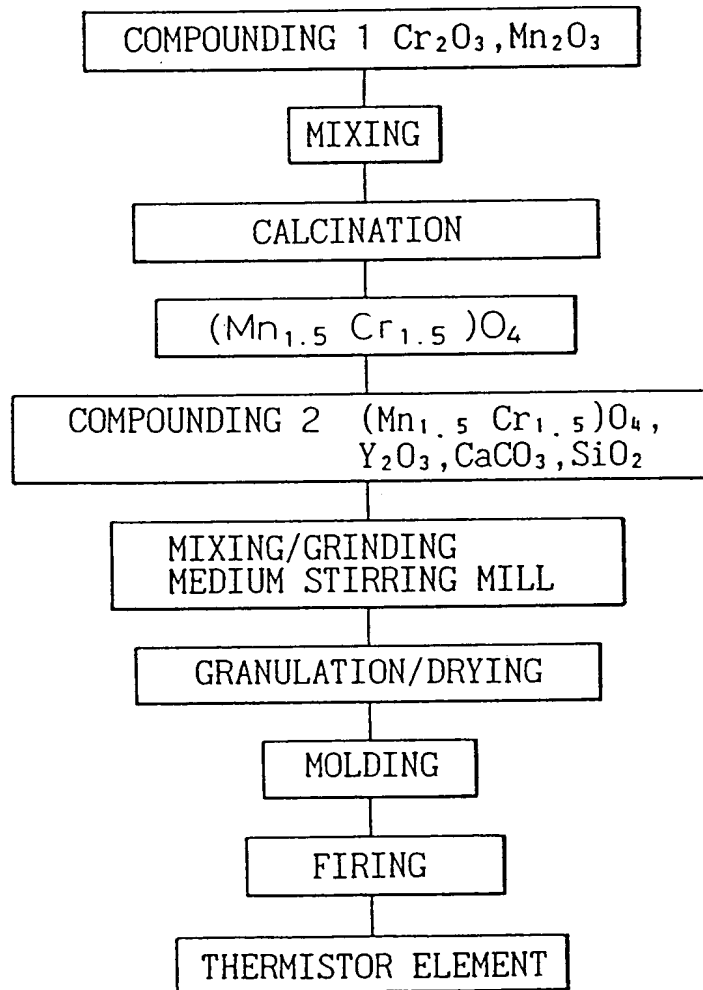
Fig.10





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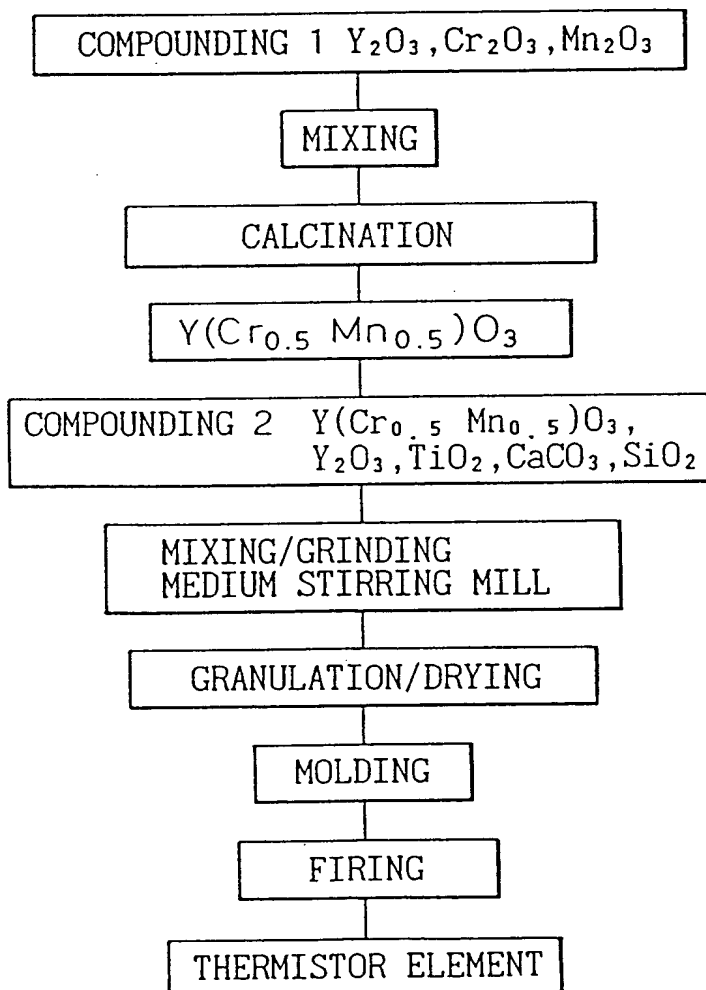
Fig.11





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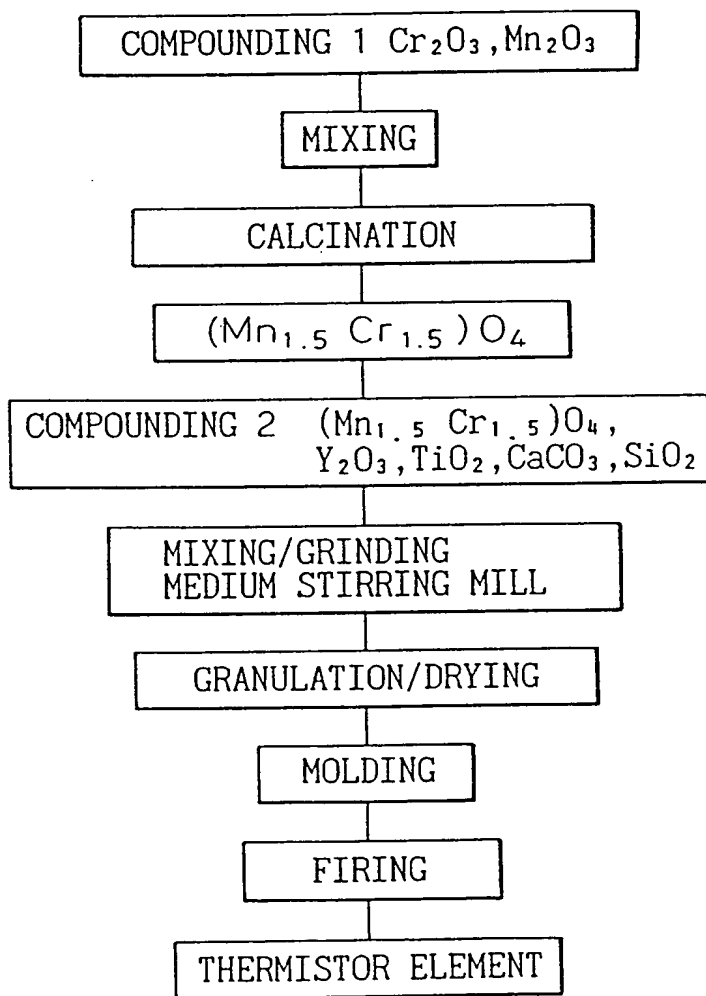
Fig.12





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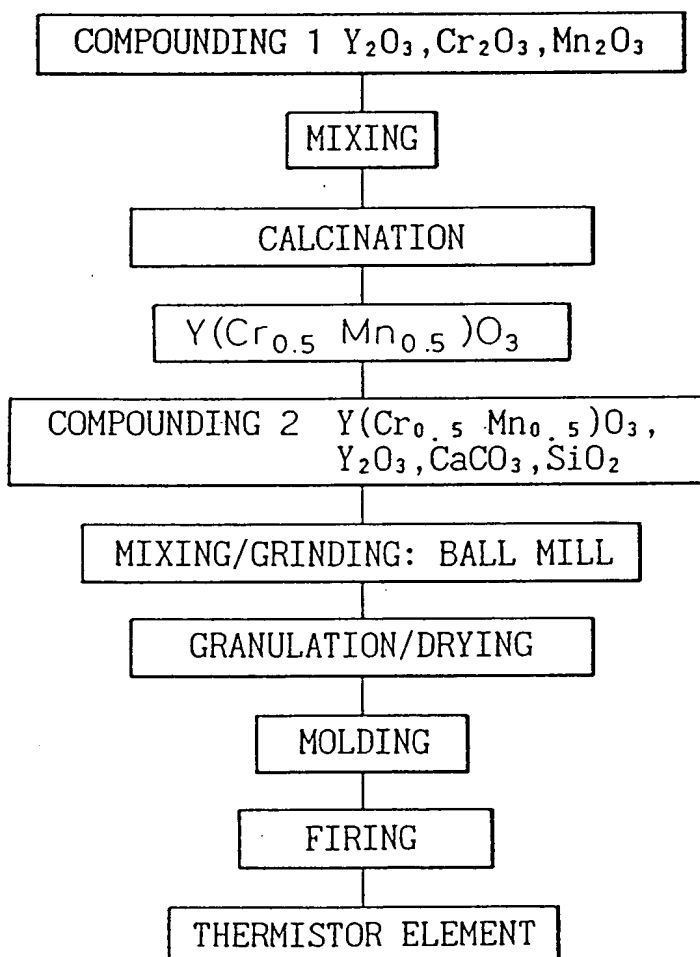
Fig.13





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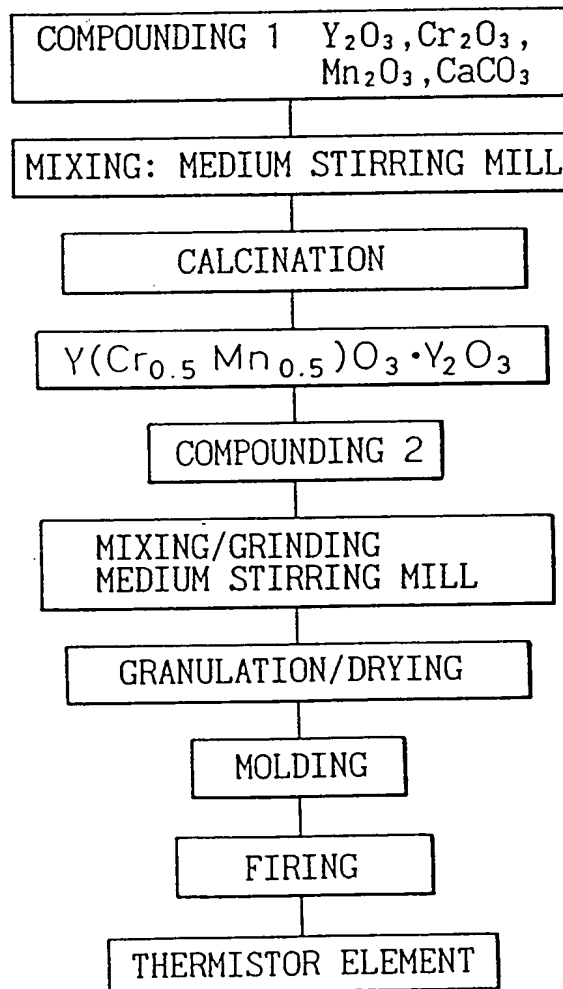
Fig. 14





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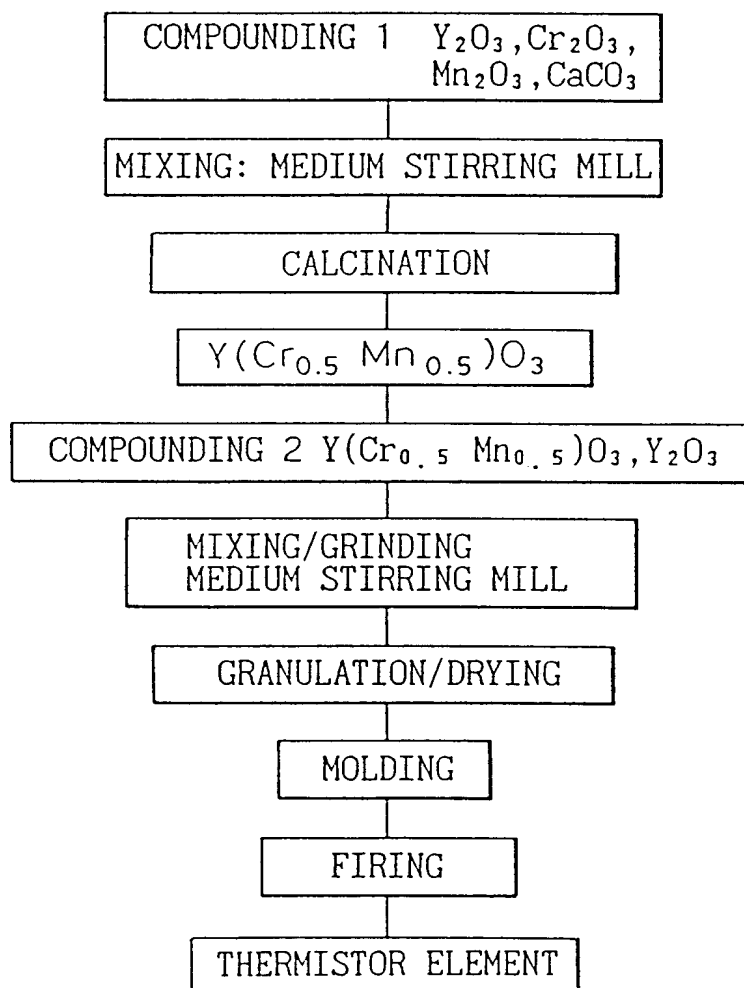
Fig.15





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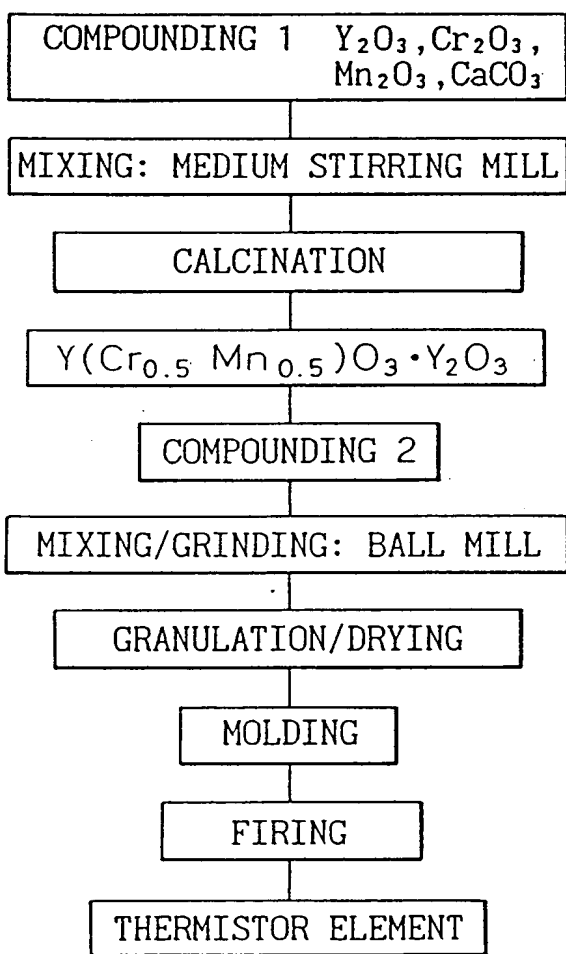
Fig.16





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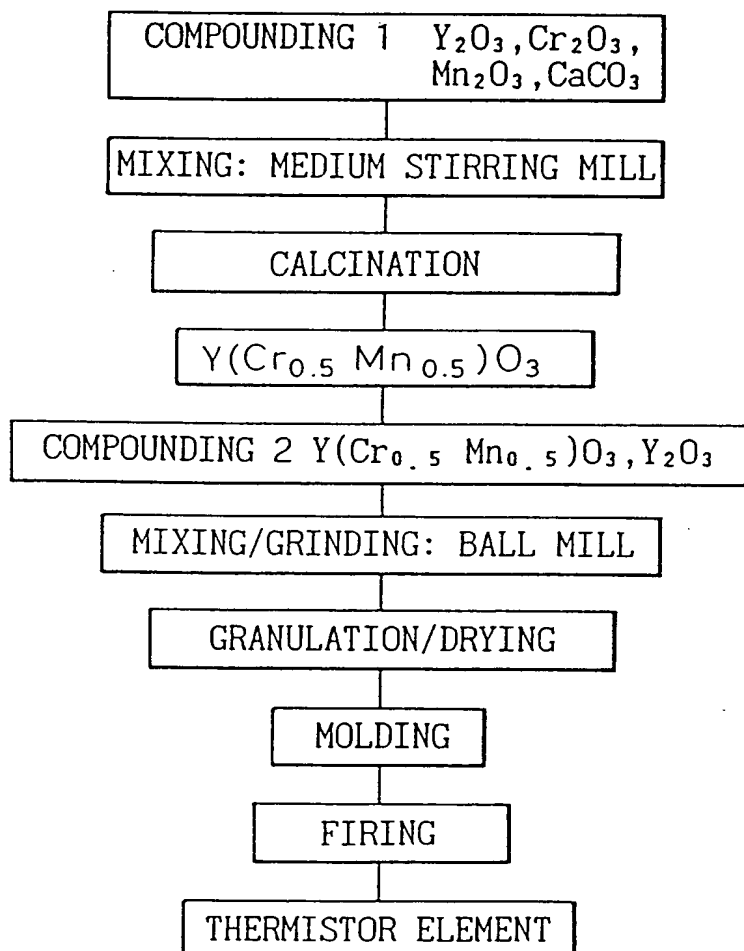
Fig.17

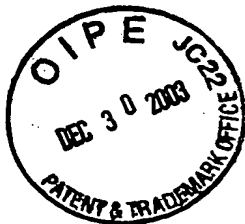




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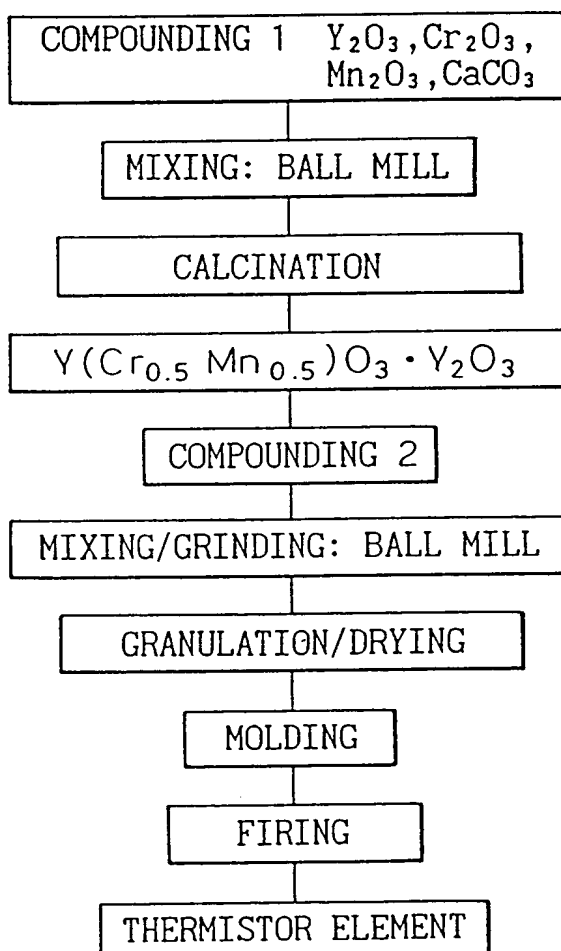
Fig.18





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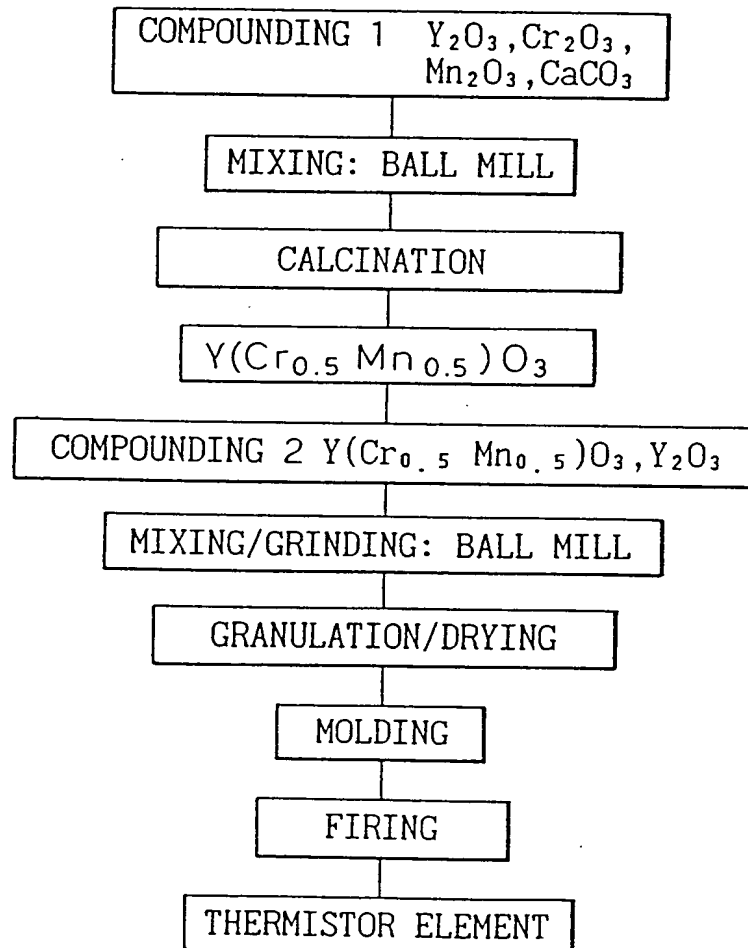
Fig.19





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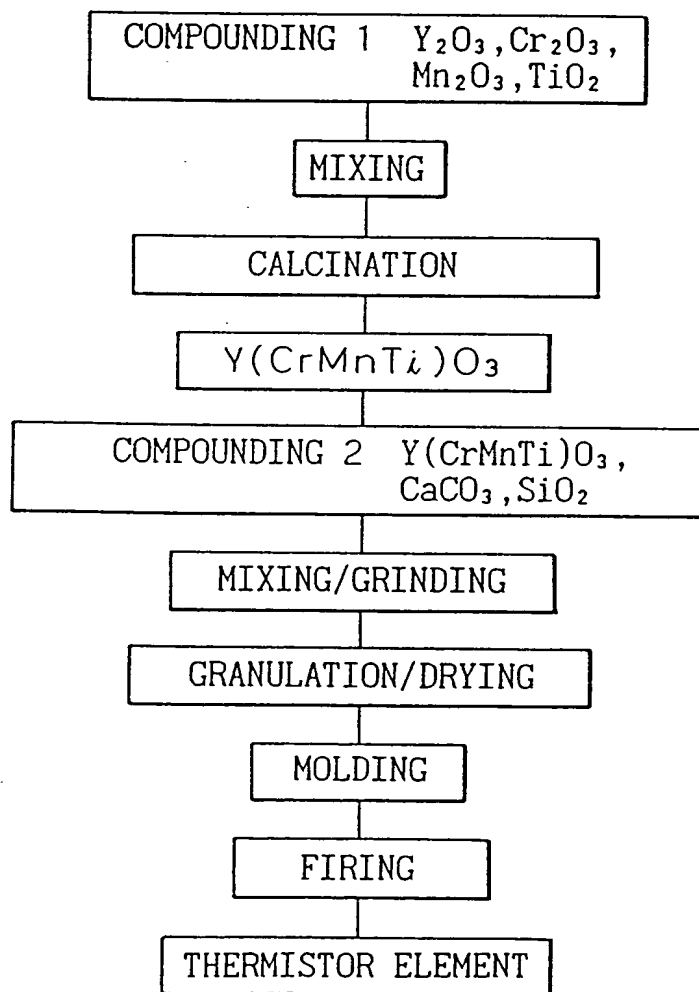
Fig. 20





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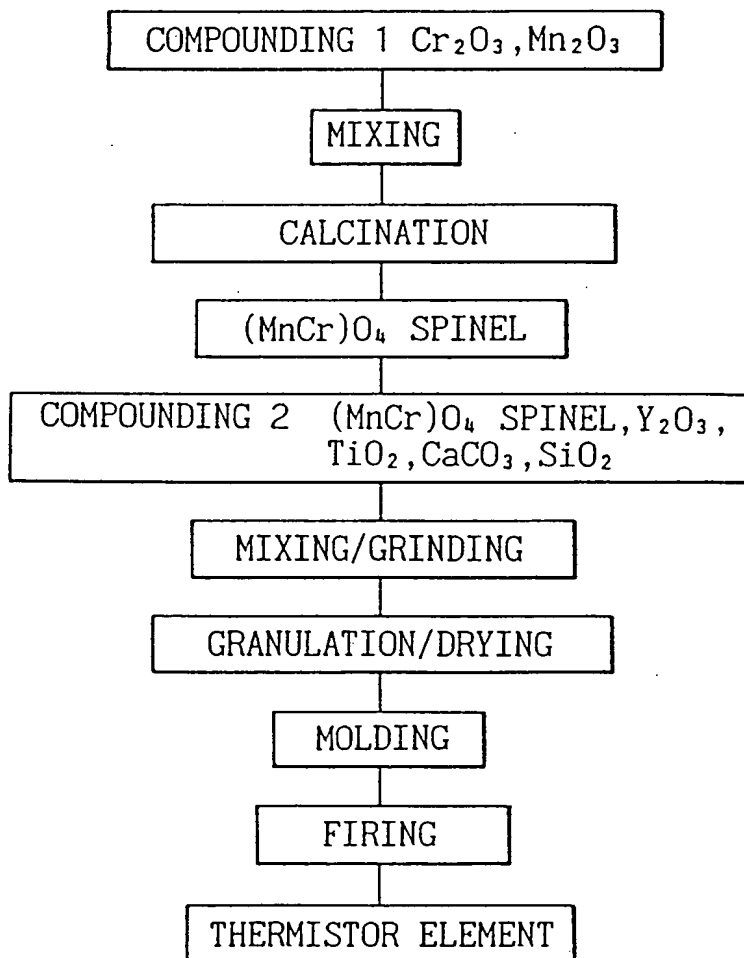
Fig. 21





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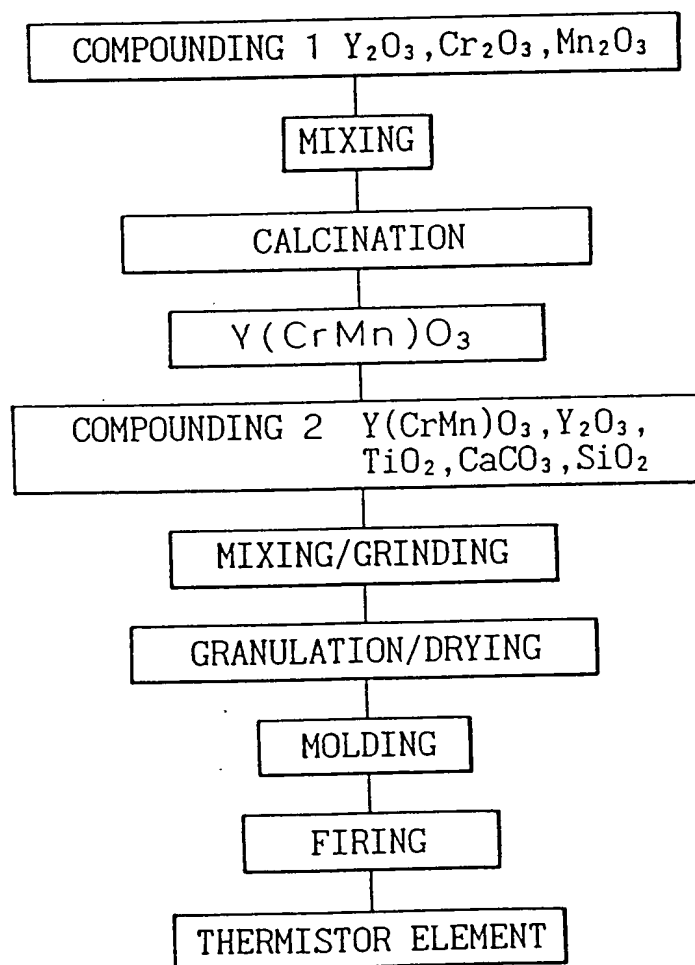
Fig.22





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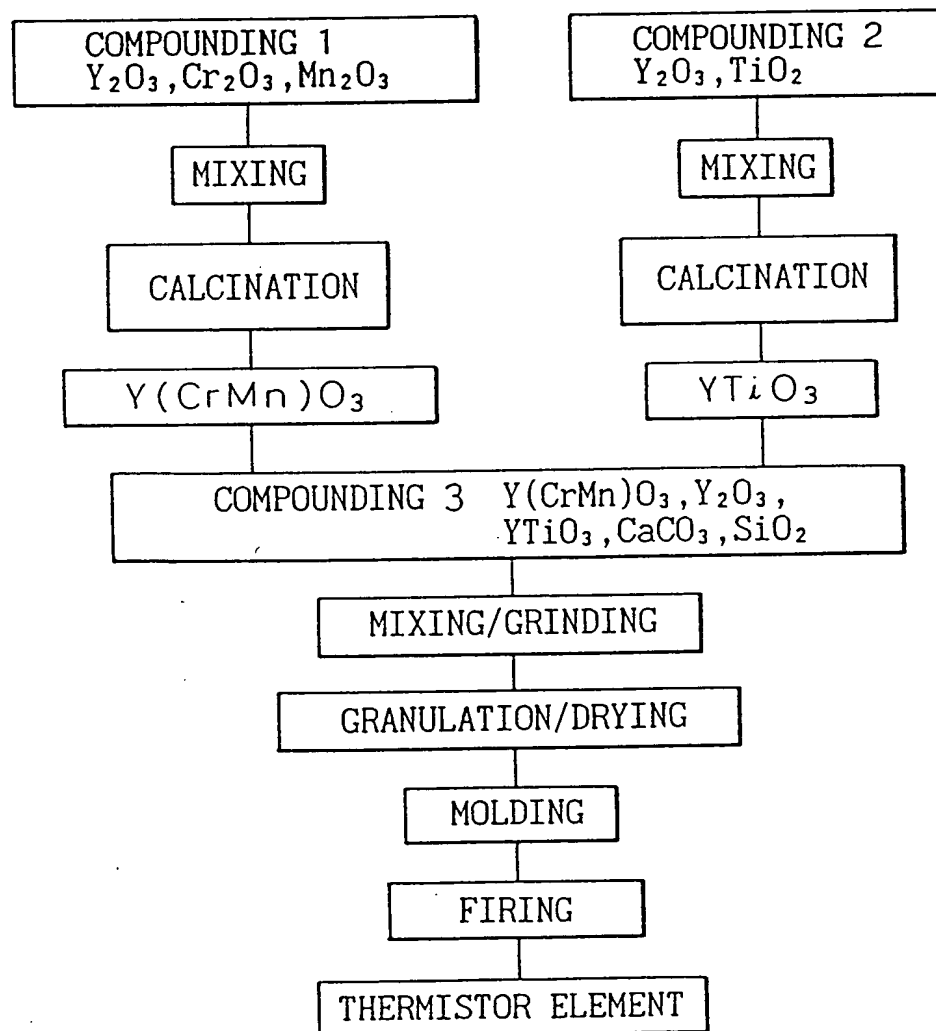
Fig. 23





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Fig. 24





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Fig. 25

